AMENDMENTS TO THE SPECIFICATION

On page 1, please delete the first paragraph under the title and insert in its place the following new paragraph.

This application is a U.S. National Phase Application of International Application No. PCT/US05/04714 filed on February 11, 2005 and asserts priority to U.S. Application Serial No. 10/845,057 filed on May 13, 2004, which is a continuing application of U.S. Application Serial Number 10/778,908 filed on February 13, 2004. The specifications of International Application No. PCT/US05/04714, U.S. Application Serial No. 10/845,057, and U.S. Application Serial Number 10/778,908 are ~~is~~ hereby incorporated by reference in their ~~its~~ entirety.

On pages 19-26, please delete Tables 1 through 4 and insert in its place the following new Tables 1 through 4:

Table 1: Human, Mouse and Rat microRNA and anti-microRNA sequences.

microRNA name	microRNA sequence (5' to 3')		Anti-microRNA molecule sequence (5' to 3')	
hsa-miR-100	SEQ ID NO. 1	AACCCGUAGAUCCGAACUUGUG	SEQ ID NO.307	CACAAGUUCGGAUCUACGGGUU
hsa-miR-103	SEQ ID NO. 2	AGCAGCAUUGUACAGGGCUAUG	SEQ ID NO.308	CAUAGCCCUGUACAAUGCUGCU
hsa-miR-105-5p	SEQ ID NO. 3	UCAAAUGCUCAGACUCCUGUGG	SEQ ID NO.309	CCACAGGAGUCUGAGCAUUUGA
hsa-miR-106a	SEQ ID NO. 4	AAAAGUGCUUACAGUGCAGGUA	SEQ ID NO.310	UACCUGCACUGUAAGCACUUUU
hsa-miR-106b	SEQ ID NO. 5	UAAAGUGCUGACAGUGCAGAUA	SEQ ID NO.311	UAUCUGCACUGUCAGCACUUUA
hsa-miR-107	SEQ ID NO. 6	AGCAGCAUUGUACAGGGCUAUC	SEQ ID NO.312	GAUAGCCCUGUACAAUGCUGCU
hsa-miR-10b	SEQ ID NO. 7	UACCCUGUAGAACCGAAUUUGU	SEQ ID NO.313	ACAAAUUCGGUUCUACAGGGUA
hsa-miR-128b	SEQ ID NO. 8	UCACAGUGAACCGGUCUCUUUC	SEQ ID NO.314	GAAAGAGACCGGUUCACUGUGA
hsa-miR-130b	SEQ ID NO. 9	CAGUGCAAUGAUGAAAGGGCAU	SEQ ID NO.315	AUGCCCUUUCAUCAUUGCACUG
hsa-miR-140-3p	SEQ ID NO. 10	UACCACAGGGUAGAACCACGGA	SEQ ID NO.316	UCCGUGGUUCUACCCUGUGGUA
hsa-miR-142-5p	SEQ ID NO. 11	CCCAUAAAGUAGAAAGCACUAC	SEQ ID NO.317	GUAGUGCUUUCUACUUUAUGGG
hsa-miR-151-5p	SEQ ID NO. 12	UCGAGGAGCUCACAGUCUAGUA	SEQ ID NO.318	UACUAGACUGUGAGCUCCUCGA
hsa-miR-155	SEQ ID NO. 13	UUAAUGCUAAUCGUGAUAGGGG	SEQ ID NO.319	CCCCUAUCACGAUUAGCAUUAA
hsa-miR-181a	SEQ ID NO. 14	AACAUUCAACGCUGUCGGUGAG	SEQ ID NO.320	CUCACCGACAGCGUUGAAUGUU
hsa-miR-181b	SEQ ID NO. 15	AACAUUCAUUGCUGUCGGUGGG	SEQ ID NO.321	CCCACCGACAGCAAUGAAUGUU
hsa-miR-181c	SEQ ID NO. 16	AACAUUCAACCUGUCGGUGAGU	SEQ ID NO.322	ACUCACCGACAGGUUGAAUGUU
hsa-miR-182	SEQ ID NO. 17	UUUGGCAAUGGUAGAACUCACA	SEQ ID NO.323	UGUGAGUUCUACCAUUGCCAAA
hsa-miR-183	SEQ ID NO. 18	UAUGGCACUGGUAGAAUUCACU	SEQ ID NO.324	AGUGAAUUCUACCAGUGCCAUA
hsa-miR-184	SEQ ID NO. 19	UGGACGGAGAACUGAUAAGGGU	SEQ ID NO.325	ACCCUUAUCAGUUCUCCGUCCA
hsa-miR-185	SEQ ID NO. 20	UGGAGAGAAAGGCAGUUCCUGA	SEQ ID NO.326	UCAGGAACUGCCUUUCUCUCCA
hsa-miR-186	SEQ ID NO. 21	CAAAGAAUUCUCCUUUUGGGCU	SEQ ID NO.327	AGCCCAAAAGGAGAAUUCUUUG
hsa-miR-187	SEQ ID NO. 22	UCGUGUCUUGUGUUGCAGCCGG	SEQ ID NO.328	CCGGCUGCAACACAAGACACGA
hsa-miR-188-3p	SEQ ID NO. 23	CUCCCACAUGCAGGGUUUGCAG	SEQ ID NO.329	CUGCAAACCCUGCAUGUGGGAG
hsa-miR-188-5p	SEQ ID NO. 24	CAUCCCUUGCAUGGUGGAGGGU	SEQ ID NO.330	ACCCUCCACCAUGCAAGGGAUG
hsa-miR-189	SEQ ID NO. 25	GUGCCUACUGAGCUGAUAUCAG	SEQ ID NO.331	CUGAUAUCAGCUCAGUAGGCAC
hsa-miR-190	SEQ ID NO. 26	UGAUAUGUUUGAUAUAUUAGGU	SEQ ID NO.332	ACCUAAUAUAUCAAACAUAUCA
hsa-miR-191	SEQ ID NO. 27	CAACGGAAUCCCAAAAGCAGCU	SEQ ID NO.333	AGCUGCUUUUGGGAUUCCGUUG
hsa-miR-192	SEQ ID NO. 28	CUGACCUAUGAAUUGACAGCCA	SEQ ID NO.334	UGGCUGUCAAUUCAUAGGUCAG
hsa-miR-193-3p	SEQ ID NO. 29	AACUGGCCUACAAAGUCCCAGU	SEQ ID NO.335	ACUGGGACUUUGUAGGCCAGUU
hsa-miR-193-5p	SEQ ID NO. 30	UGGGUCUUUGCGGGCAAGAUGA	SEQ ID NO.336	UCAUCUUGCCCGCAAAGACCCA
hsa-miR-194	SEQ ID NO. 31	UGUAACAGCAACUCCAUGUGGA	SEQ ID NO.337	UCCACAUGGAGUUGCUGUUACA
hsa-miR-195	SEQ ID NO. 32	UAGCAGCACAGAAAUAUUGGCA	SEQ ID NO.338	UGCCAAUAUUUCUGUGCUGCUA

microRNA name	microRNA sequence (5' to 3')		Anti-microRNA molecule sequence (5' to 3')	
hsa-miR-196	SEQ ID NO. 33	UAGGUAGUUUCAUGUUGUUGGG	SEQ ID NO.339	CCCAACAACAUGAAACUACCUA
hsa-miR-197	SEQ ID NO. 34	UUCACCACCUUCUCCACCCAGC	SEQ ID NO.340	GCUGGGUGGAGAAGGUGGUGAA
hsa-miR-198	SEQ ID NO. 35	GGUCCAGAGGGGAGAUAGGUUC	SEQ ID NO.341	GAACCUAUCUCCCCUCUGGACC
hsa-miR-199a-3p	SEQ ID NO. 36	ACAGUAGUCUGCACAUUGGUUA	SEQ ID NO.342	UAACCAAUGUGCAGACUACUGU
hsa-miR-199a-5p	SEQ ID NO. 37	CCCAGUGUUCAGACUACCUGUU	SEQ ID NO.343	AACAGGUAGUCUGAACACUGGG
hsa-miR-199b	SEQ ID NO. 38	CCCAGUGUUUAGACUAUCUGUU	SEQ ID NO.344	AACAGAUAGUCUAAACACUGGG
hsa-miR-200a	SEQ ID NO. 39	UAACACUGUCUGGUAACGAUGU	SEQ ID NO.345	ACAUCGUUACCAGACAGUGUUA
hsa-miR-200b	SEQ ID NO. 40	CUCUAAUACUGCCUGGUAAUGA	SEQ ID NO.346	UCAUUACCAGGCAGUAUUAGAG
hsa-miR-200c	SEQ ID NO. 41	AAUACUGCCGGGUAAUGAUGGA	SEQ ID NO.347	UCCAUCAUUACCCGGCAGUAUU
hsa-miR-203	SEQ ID NO. 42	GUGAAAUGUUUAGGACCACUAG	SEQ ID NO.348	CUAGUGGUCCUAAACAUUUCAC
hsa-miR-204	SEQ ID NO. 43	UUCCCUUUGUCAUCCUAUGCCU	SEQ ID NO.349	AGGCAUAGGAUGACAAAGGGAA
hsa-miR-205	SEQ ID NO. 44	UCCUUCAUUCCACCGGAGUCUG	SEQ ID NO.350	CAGACUCCGGUGGAAUGAAGGA
hsa-miR-206	SEQ ID NO. 45	UGGAAUGUAAGGAAGUGUGUGG	SEQ ID NO.351	CCACACACUUCCUUACAUUCCA
hsa-miR-208	SEQ ID NO. 46	AUAAGACGAGCAAAAAGCUUGU	SEQ ID NO.352	ACAAGCUUUUUGCUCGUCUUAU
hsa-miR-210	SEQ ID NO. 47	CUGUGCGUGUGACAGCGGCUGA	SEQ ID NO.353	UCAGCCGCUGUCACACGCACAG
hsa-miR-211	SEQ ID NO. 48	UUCCCUUUGUCAUCCUUCGCCU	SEQ ID NO.354	AGGCGAAGGAUGACAAAGGGAA
hsa-miR-212	SEQ ID NO. 49	UAACAGUCUCCAGUCACGGCCA	SEQ ID NO.355	UGGCCGUGACUGGAGACUGUUA
hsa-miR-213	SEQ ID NO. 50	ACCAUCGACCGUUGAUUGUACC	SEQ ID NO.356	GGUACAAUCAACGGUCGAUGGU
hsa-miR-214	SEQ ID NO. 51	ACAGCAGGCACAGACAGGCAGU	SEQ ID NO.357	ACUGCCUGUCUGUGCCUGCUGU
hsa-miR-215	SEQ ID NO. 52	AUGACCUAUGAAUUGACAGACA	SEQ ID NO.358	UGUCUGUCAAUUCAUAGGUCAU
hsa-miR-216	SEQ ID NO. 53	UAAUCUCAGCUGGCAACUGUGA	SEQ ID NO.359	UCACAGUUGCCAGCUGAGAUUA
hsa-miR-217	SEQ ID NO. 54	UACUGCAUCAGGAACUGAUUGG	SEQ ID NO.360	CCAAUCAGUUCCUGAUGCAGUA
hsa-miR-218	SEQ ID NO. 55	UUGUGCUUGAUCUAACCAUGUG	SEQ ID NO.361	CACAUGGUUAGAUCAAGCACAA
hsa-miR-219	SEQ ID NO. 56	UGAUUGUCCAAACGCAAUUCUU	SEQ ID NO.362	AAGAAUUGCGUUUGGACAAUCA
hsa-miR-220	SEQ ID NO. 57	CCACACCGUAUCUGACACUUUG	SEQ ID NO.363	CAAAGUGUCAGAUACGGUGUGG
hsa-miR-221	SEQ ID NO. 58	AGCUACAUUGUCUGCUGGGUUU	SEQ ID NO.364	AAACCCAGCAGACAAUGUAGCU
hsa-miR-222	SEQ ID NO. 59	AGCUACAUCUGGCUACUGGGUC	SEQ ID NO.365	GACCCAGUAGCCAGAUGUAGCU
hsa-miR-223	SEQ ID NO. 60	UGUCAGUUUGUCAAAUACCCCA	SEQ ID NO.366	UGGGGUAUUUGACAAACUGACA
hsa-miR-224	SEQ ID NO. 61	CAAGUCACUAGUGGUUCCGUUU	SEQ ID NO.367	AAACGGAACCACUAGUGACUUG
hsa-miR-28-5p	SEQ ID NO. 62	AAGGAGCUCACAGUCUAUUGAG	SEQ ID NO.368	CUCAAUAGACUGUGAGCUCCUU
hsa-miR-290	SEQ ID NO. 63	CUCAAACUGUGGGGGCACUUUC	SEQ ID NO.369	GAAAGUGCCCCCACAGUUUGAG
hsa-miR-296	SEQ ID NO. 64	AGGGCCCCCCCUCAAUCCUGUU	SEQ ID NO.370	AACAGGAUUGAGGGGGGGCCCU
hsa-miR-299	SEQ ID NO. 65	UGGUUUACCGUCCCACAUACAU	SEQ ID NO.371	AUGUAUGUGGGACGGUAAACCA
hsa-miR-301	SEQ ID NO. 66	CAGUGCAAUAGUAUUGUCAAAG	SEQ ID NO.372	CUUUGACAAUACUAUUGCACUG
hsa-miR-302	SEQ ID NO. 67	UAAGUGCUUCCAUGUUUUGGUG	SEQ ID NO.373	CACCAAAACAUGGAAGCACUUA
hsa-miR-30e	SEQ ID NO. 68	UGUAAACAUCCUUGACUGGAAG	SEQ ID NO.374	CUUCCAGUCAAGGAUGUUUACA
hsa-miR-320	SEQ ID NO. 69	AAAAGCUGGGUUGAGAGGGCGA	SEQ ID NO.375	UCGCCCUCUCAACCCAGCUUUU
hsa-miR-321	SEQ ID NO. 70	UAAGCCAGGGAUUGUGGGUUCG	SEQ ID NO.376	CGAACCCACAAUCCCUGGCUUA
hsa-miR-322	SEQ ID NO. 71	AAACAUGAAUUGCUGCUGUAUC	SEQ ID NO.377	GAUACAGCAGCAAUUCAUGUUU
hsa-miR-323	SEQ ID NO. 72	GCACAUUACACGGUCGACCUCU	SEQ ID NO.378	AGAGGUCGACCGUGUAAUGUGC
hsa-miR-324-3p	SEQ ID NO. 73	CCACUGCCCCAGGUGCUGCUGG	SEQ ID NO.379	CCAGCAGCACCUGGGGCAGUGG
hsa-miR-324-5p	SEQ ID NO. 74	CGCAUCCCCUAGGGCAUUGGUG	SEQ ID NO.380	CACCAAUGCCCUAGGGGAUGCG
hsa-miR-326	SEQ ID NO. 75	CCUCUGGGCCCUUCCUCCAGCC	SEQ ID NO.381	GGCUGGAGGAAGGGCCCAGAGG
hsa-miR-328	SEQ ID NO. 76	CUGGCCCUCUCUGCCCUUCCGU	SEQ ID NO.382	ACGGAAGGGCAGAGAGGGCCAG
hsa-miR-329	SEQ ID NO. 77	AACACACCCAGCUAACCUUUUU	SEQ ID NO.383	AAAAAGGUUAGCUGGGUGUGUU
hsa-miR-34a	SEQ ID NO. 78	UGGCAGUGUCUUAGCUGGUUGU	SEQ ID NO.384	ACAACCAGCUAAGACACUGCCA
hsa-miR-34b	SEQ ID NO. 79	AGGCAGUGUCAUUAGCUGAUUG	SEQ ID NO.385	CAAUCAGCUAAUGACACUGCCU
hsa-miR-34c	SEQ ID NO. 80	AGGCAGUGUAGUUAGCUGAUUG	SEQ ID NO.386	CAAUCAGCUAACUACACUGCCU
hsa-miR-92	SEQ ID NO. 81	UAUUGCACUUGUCCCGGCCUGU	SEQ ID NO.387	ACAGGCCGGGACAAGUGCAAUA
hsa-miR-93	SEQ ID NO. 82	AAAGUGCUGUUCGUGCAGGUAG	SEQ ID NO.388	CUACCUGCACGAACAGCACUUU
hsa-miR-95	SEQ ID NO. 83	UUCAACGGGUAUUUAUUGAGCA	SEQ ID NO.389	UGCUCAAUAAAUACCCGUUGAA
hsa-miR-96	SEQ ID NO. 84	UUUGGCACUAGCACAUUUUUGC	SEQ ID NO.390	GCAAAAAUGUGCUAGUGCCAAA
hsa-miR-98	SEQ ID NO. 85	UGAGGUAGUAAGUUGUAUUGUU	SEQ ID NO.391	AACAAUACAACUUACUACCUCA
mmu-miR-106a	SEQ ID NO. 86	CAAAGUGCUAACAGUGCAGGUA	SEQ ID NO.392	UACCUGCACUGUUAGCACUUUG
mmu-miR-10b	SEQ ID NO. 87	CCCUGUAGAACCGAAUUUGUGU	SEQ ID NO.393	ACACAAAUUCGGUUCUACAGGG

microRNA name	microRNA sequence (5' to 3')		Anti-microRNA molecule sequence (5' to 3')	
mmu-miR-135b	SEQ ID NO. 88	UAUGGCUUUUCAUUCCUAUGUG	SEQ ID NO.394	CACAUAGGAAUGAAAAGCCAUA
mmu-miR-148b	SEQ ID NO. 89	UCAGUGCAUCACAGAACUUUGU	SEQ ID NO.395	ACAAAGUUCUGUGAUGCACUGA
mmu-miR-151-3p	SEQ ID NO. 90	CUAGACUGAGGCUCCUUGAGGA	SEQ ID NO.396	UCCUCAAGGAGCCUCAGUCUAG
mmu-miR-155	SEQ ID NO. 91	UUAAUGCUAAUUGUGAUAGGGG	SEQ ID NO.397	CCCCUAUCACAAUUAGCAUUAA
mmu-miR-199b	SEQ ID NO. 92	CCCAGUGUUUAGACUACCUGUU	SEQ ID NO.398	AACAGGUAGUCUAAACACUGGG
mmu-miR-200b	SEQ ID NO. 93	UAAUACUGCCUGGUAAUGAUGA	SEQ ID NO.399	UCAUCAUUACCAGGCAGUAUUA
mmu-miR-203	SEQ ID NO. 94	UGAAAUGUUUAGGACCACUAGA	SEQ ID NO.400	UCUAGUGGUCCUAAACAUUUCA
mmu-miR-211	SEQ ID NO. 95	UUCCCUUUGUCAUCCUUUGCCU	SEQ ID NO.401	AGGCAAAGGAUGACAAAGGGAA
mmu-miR-217	SEQ ID NO. 96	UACUGCAUCAGGAACUGACUGG	SEQ ID NO.402	CCAGUCAGUUCCUGAUGCAGUA
mmu-miR-224	SEQ ID NO. 97	UAAGUCACUAGUGGUUCCGUUU	SEQ ID NO.403	AAACGGAACCACUAGUGACUUA
mmu-miR-28-3p	SEQ ID NO. 98	CACUAGAUUGUGAGCUGCUGGA	SEQ ID NO.404	UCCAGCAGCUCACAAUCUAGUG
mmu-miR-290	SEQ ID NO. 99	CUCAAACUAUGGGGGCACUUUU	SEQ ID NO.405	AAAAGUGCCCCCAUAGUUUGAG
mmu-miR-291-3p	SEQ ID NO. 100	AAAGUGCUUCCACUUUGUGUGC	SEQ ID NO.406	GCACACAAAGUGGAAGCACUUU
mmu-miR-291-5p	SEQ ID NO. 101	CAUCAAAGUGGAGGCCCUCUCU	SEQ ID NO.407	AGAGAGGGCCUCCACUUUGAUG
mmu-miR-292-3p	SEQ ID NO. 102	AAGUGCCGCCAGGUUUUGAGUG	SEQ ID NO.408	CACUCAAAACCUGGCGGCACUU
mmu-miR-292-5p	SEQ ID NO. 103	ACUCAAACUGGGGGCUCUUUUG	SEQ ID NO.409	CAAAAGAGCCCCCAGUUUGAGU
mmu-miR-293	SEQ ID NO. 104	AGUGCCGCAGAGUUUGUAGUGU	SEQ ID NO.410	ACACUACAAACUCUGCGGCACU
mmu-miR-294	SEQ ID NO. 105	AAAGUGCUUCCCUUUUGUGUGU	SEQ ID NO.411	ACACACAAAAGGGAAGCACUUU
mmu-miR-295	SEQ ID NO. 106	AAAGUGCUACUACUUUUGAGUC	SEQ ID NO.412	GACUCAAAAGUAGUAGCACUUU
mmu-miR-297	SEQ ID NO. 107	AUGUAUGUGUGCAUGUGCAUGU	SEQ ID NO.413	ACAUGCACAUGCACACAUACAU
mmu-miR-298	SEQ ID NO. 108	GGCAGAGGAGGGCUGUUCUUCC	SEQ ID NO.414	GGAAGAACAGCCCUCCUCUGCC
mmu-miR-300	SEQ ID NO. 109	UAUGCAAGGGCAAGCUCUCUUC	SEQ ID NO.415	GAAGAGAGCUUGCCCUUGCAUA
mmu-miR-31	SEQ ID NO. 110	AGGCAAGAUGCUGGCAUAGCUG	SEQ ID NO.416	CAGCUAUGCCAGCAUCUUGCCU
mmu-miR-322	SEQ ID NO. 111	AAACAUGAAGCGCUGCAACACC	SEQ ID NO.417	GGUGUUGCAGCGCUUCAUGUUU
mmu-miR-325	SEQ ID NO. 112	CCUAGUAGGUGCUCAGUAAGUG	SEQ ID NO.418	CACUUACUGAGCACCUACUAGG
mmu-miR-326	SEQ ID NO. 113	CCUCUGGGCCCUUCCUCCAGUC	SEQ ID NO.419	GACUGGAGGAAGGGCCCAGAGG
mmu-miR-330	SEQ ID NO. 114	GCAAAGCACAGGGCCUGCAGAG	SEQ ID NO.420	CUCUGCAGGCCCUGUGCUUUGC
mmu-miR-331	SEQ ID NO. 115	GCCCCUGGGCCUAUCCUAGAAC	SEQ ID NO.421	GUUCUAGGAUAGGCCCAGGGGC
mmu-miR-337	SEQ ID NO. 116	UUCAGCUCCUAUAUGAUGCCUU	SEQ ID NO.422	AAGGCAUCAUAUAGGAGCUGAA
mmu-miR-338	SEQ ID NO. 117	UCCAGCAUCAGUGAUUUUGUUG	SEQ ID NO.423	CAACAAAAUCACUGAUGCUGGA
mmu-miR-339	SEQ ID NO. 118	UCCCUGUCCUCCAGGAGCUCAC	SEQ ID NO.424	GUGAGCUCCUGGAGGACAGGGA
mmu-miR-340	SEQ ID NO. 119	UCCGUCUCAGUUACUUUAUAGC	SEQ ID NO.425	GCUAUAAAGUAACUGAGACGGA
mmu-miR-341	SEQ ID NO. 120	UCGAUCGGUCGGUCGGUCAGUC	SEQ ID NO.426	GACUGACCGACCGACCGAUCGA
mmu-miR-342	SEQ ID NO. 121	UCUCACACAGAAAUCGCACCCG	SEQ ID NO.427	CGGGUGCGAUUUCUGUGUGAGA
mmu-miR-344	SEQ ID NO. 122	UGAUCUAGCCAAAGCCUGACUG	SEQ ID NO.428	CAGUCAGGCUUUGGCUAGAUCA
mmu-miR-345	SEQ ID NO. 123	UGCUGACCCCUAGUCCAGUGCU	SEQ ID NO.429	AGCACUGGACUAGGGGUCAGCA
mmu-miR-346	SEQ ID NO. 124	UGUCUGCCCGAGUGCCUGCCUC	SEQ ID NO.430	GAGGCAGGCACUCGGGCAGACA
mmu-miR-34b	SEQ ID NO. 125	UAGGCAGUGUAAUUAGCUGAUU	SEQ ID NO.431	AAUCAGCUAAUUACACUGCCUA
mmu-miR-350	SEQ ID NO. 126	UUCACAAAGCCCAUACACUUUC	SEQ ID NO.432	GAAAGUGUAUGGGCUUUGUGAA
mmu-miR-351	SEQ ID NO. 127	UCCCUGAGGAGCCCUUUGAGCC	SEQ ID NO.433	GGCUCAAAGGGCUCCUCAGGGA
mmu-miR-7b	SEQ ID NO. 128	UGGAAGACUUGUGAUUUUGUUG	SEQ ID NO.434	CAACAAAAUCACAAGUCUUCCA
mmu-miR-92	SEQ ID NO. 129	UAUUGCACUUGUCCCGGCCUGA	SEQ ID NO.435	UCAGGCCGGGACAAGUGCAAUA
mmu-miR-93	SEQ ID NO. 130	CAAAGUGCUGUUCGUGCAGGUA	SEQ ID NO.436	UACCUGCACGAACAGCACUUUG
rno-miR-327	SEQ ID NO. 131	CCUUGAGGGGCAUGAGGGUAGU	SEQ ID NO.437	ACUACCCUCAUGCCCCUCAAGG
rno-miR-333	SEQ ID NO. 132	GUGGUGUGCUAGUUACUUUUGG	SEQ ID NO.438	CCAAAAGUAACUAGCACACCAC
rno-miR-335	SEQ ID NO. 133	UCAAGAGCAAUAACGAAAAAUG	SEQ ID NO.439	CAUUUUUCGUUAUUGCUCUUGA
rno-miR-336	SEQ ID NO. 134	UCACCCUUCCAUAUCUAGUCUC	SEQ ID NO.440	GAGACUAGAUAUGGAAGGGUGA
rno-miR-343	SEQ ID NO. 135	UCUCCCUCCGUGUGCCCAGUAU	SEQ ID NO.441	AUACUGGGCACACGGAGGGAGA
rno-miR-347	SEQ ID NO. 136	UGUCCCUCUGGGUCGCCCAGCU	SEQ ID NO.442	AGCUGGGCGACCCAGAGGGACA
rno-miR-349	SEQ ID NO. 137	CAGCCCUGCUGUCUUAACCUCU	SEQ ID NO.443	AGAGGUUAAGACAGCAGGGCUG
rno-miR-352	SEQ ID NO. 138	AGAGUAGUAGGUUGCAUAGUAC	SEQ ID NO.444	GUACUAUGCAACCUACUACUCU

Table 2: Novel Human microRNA and anti-microRNA sequences.

ıicroRNA name	microRNA sequence (5' to 3')	Anti-microRNA molecule sequence (5' to 3')
hsa-miR-361	SEQ ID NO. 139 UUAUCAGAAUCUCCAGGGGUAC	SEQ ID NO.445 GUACCCCUGGAGAUUCUGAUAA
hsa-miR-362	SEQ ID NO. 140 AAUCCUUGGAACCUAGGUGUGA	SEQ ID NO.446 UCACACCUAGGUUCCAAGGAUU
hsa-miR-363	SEQ ID NO. 141 AUUGCACGGUAUCCAUCUGUAA	SEQ ID NO.447 UUACAGAUGGAUACCGUGCAAU
hsa-miR-364	SEQ ID NO. 142 CGGCGGGGACGGCGAUUGGUCC	SEQ ID NO.448 GGACCAAUCGCCGUCCCCGCCG
hsa-miR-365	SEQ ID NO. 143 UAAUGCCCCUAAAAAUCCUUAU	SEQ ID NO.449 AUAAGGAUUUUUAGGGGCAUUA
hsa-miR-366	SEQ ID NO. 144 UAACUGGUUGAACAACUGAACC	SEQ ID NO.450 GGUUCAGUUGUUCAACCAGUUA

Table 3: C. elegans microRNA and anti-microRNA sequences.

microRNA name	microRNA sequence (5' to 3')	Anti-microRNA molecule sequence (5' to 3')
Cel-let-7	SEQ ID NO. 145 UGAGGUAGUAGGUUGUAUAGUU	SEQ ID NO.451 AACUAUACAACCUACUACCUCA
Cel-lin-4	SEQ ID NO. 146 UCCCUGAGACCUCAAGUGUGAG	SEQ ID NO.452 CUCACACUUGAGGUCUCAGGGA
Cel-miR-1	SEQ ID NO. 147 UGGAAUGUAAAGAAGUAUGUAG	SEQ ID NO.453 CUACAUACUUCUUUACAUUCCA
Cel-miR-2	SEQ ID NO. 148 UAUCACAGCCAGCUUUGAUGUG	SEQ ID NO.454 CACAUCAAAGCUGGCUGUGAUA
Cel-miR-34	SEQ ID NO. 149 AGGCAGUGUGGUUAGCUGGUUG	SEQ ID NO.455 CAACCAGCUAACCACACUGCCU
Cel-miR-35	SEQ ID NO. 150 UCACCGGGUGGAAACUAGCAGU	SEQ ID NO.456 ACUGCUAGUUUCCACCCGGUGA
Cel-miR-36	SEQ ID NO. 151 UCACCGGGUGAAAAUUCGCAUG	SEQ ID NO.457 CAUGCGAAUUUUCACCCGGUGA
Cel-miR-37	SEQ ID NO. 152 UCACCGGGUGAACACUUGCAGU	SEQ ID NO.458 ACUGCAAGUGUUCACCCGGUGA
Cel-miR-38	SEQ ID NO. 153 UCACCGGGAGAAAAACUGGAGU	SEQ ID NO.459 ACUCCAGUUUUUCUCCCGGUGA
Cel-miR-39	SEQ ID NO. 154 UCACCGGGUGUAAAUCAGCUUG	SEQ ID NO.460 CAAGCUGAUUUACACCCGGUGA
Cel-miR-40	SEQ ID NO. 155 UCACCGGGUGUACAUCAGCUAA	SEQ ID NO.461 UUAGCUGAUGUACACCCGGUGA
Cel-miR-41	SEQ ID NO. 156 UCACCGGGUGAAAAAUCACCUA	SEQ ID NO.462 UAGGUGAUUUUUCACCCGGUGA
Cel-miR-42	SEQ ID NO. 157 CACCGGGUUAACAUCUACAGAG	SEQ ID NO.463 CUCUGUAGAUGUUAACCCGGUG
Cel-miR-43	SEQ ID NO. 158 UAUCACAGUUUACUUGCUGUCG	SEQ ID NO.464 CGACAGCAAGUAAACUGUGAUA
Cel-miR-44	SEQ ID NO. 159 UGACUAGAGACACAUUCAGCUU	SEQ ID NO.465 AAGCUGAAUGUGUCUCUAGUCA
Cel-miR-45	SEQ ID NO. 160 UGACUAGAGACACAUUCAGCUU	SEQ ID NO.466 AAGCUGAAUGUGUCUCUAGUCA
Cel-miR-46	SEQ ID NO. 161 UGUCAUGGAGUCGCUCUCUUCA	SEQ ID NO.467 UGAAGAGAGCGACUCCAUGACA
Cel-miR-47	SEQ ID NO. 162 UGUCAUGGAGGCGCUCUCUUCA	SEQ ID NO.468 UGAAGAGAGCGCCUCCAUGACA
Cel-miR-48	SEQ ID NO. 163 UGAGGUAGGCUCAGUAGAUGCG	SEQ ID NO.469 CGCAUCUACUGAGCCUACCUCA
Cel-miR-49	SEQ ID NO. 164 AAGCACCACGAGAAGCUGCAGA	SEQ ID NO.470 UCUGCAGCUUCUCGUGGUGCUU
Cel-miR-50	SEQ ID NO. 165 UGAUAUGUCUGGUAUUCUUGGG	SEQ ID NO.471 CCCAAGAAUACCAGACAUAUCA
Cel-miR-51	SEQ ID NO. 166 UACCCGUAGCUCCUAUCCAUGU	SEQ ID NO.472 ACAUGGAUAGGAGCUACGGGUA
Cel-miR-52	SEQ ID NO. 167 CACCCGUACAUAUGUUUCCGUG	SEQ ID NO.473 CACGGAAACAUAUGUACGGGUG
Cel-miR-53	SEQ ID NO. 168 CACCCGUACAUUUGUUUCCGUG	SEQ ID NO.474 CACGGAAACAAAUGUACGGGUG
Cel-miR-54	SEQ ID NO. 169 UACCCGUAAUCUUCAUAAUCCG	SEQ ID NO.475 CGGAUUAUGAAGAUUACGGGUA
Cel-miR-55	SEQ ID NO. 170 UACCCGUAUAAGUUUCUGCUGA	SEQ ID NO.476 UCAGCAGAAACUUAUACGGGUA
Cel-miR-56	SEQ ID NO. 171 UACCCGUAAUGUUUCCGCUGAG	SEQ ID NO.477 CUCAGCGGAAACAUUACGGGUA
Cel-miR-57	SEQ ID NO. 172 UACCCUGUAGAUCGAGCUGUGU	SEQ ID NO.478 ACACAGCUCGAUCUACAGGGUA
Cel-miR-58	SEQ ID NO. 173 UGAGAUCGUUCAGUACGGCAAU	SEQ ID NO.479 AUUGCCGUACUGAACGAUCUCA
Cel-miR-59	SEQ ID NO. 174 UCGAAUCGUUUAUCAGGAUGAU	SEQ ID NO.480 AUCAUCCUGAUAAACGAUUCGA
Cel-miR-60	SEQ ID NO. 175 UAUUAUGCACAUUUUCUAGUUC	SEQ ID NO.481 GAACUAGAAAAUGUGCAUAAUA
Cel-miR-61	SEQ ID NO. 176 UGACUAGAACCGUUACUCAUCU	SEQ ID NO.482 AGAUGAGUAACGGUUCUAGUCA
Cel-miR-62	SEQ ID NO. 177 UGAUAUGUAAUCUAGCUUACAG	SEQ ID NO.483 CUGUAAGCUAGAUUACAUAUCA
Cel-miR-63	SEQ ID NO. 178 AUGACACUGAAGCGAGUUGGAA	SEQ ID NO.484 UUCCAACUCGCUUCAGUGUCAU
Cel-miR-64	SEQ ID NO. 179 UAUGACACUGAAGCGUUACCGA	SEQ ID NO.485 UCGGUAACGCUUCAGUGUCAUA
Cel-miR-65	SEQ ID NO. 180 UAUGACACUGAAGCGUAACCGA	SEQ ID NO.486 UCGGUUACGCUUCAGUGUCAUA
Cel-miR-66	SEQ ID NO. 181 CAUGACACUGAUUAGGGAUGUG	SEQ ID NO.487 CACAUCCCUAAUCAGUGUCAUG
Cel-miR-67	SEQ ID NO. 182 UCACAACCUCCUAGAAAGAGUA	SEQ ID NO.488 UACUCUUUCUAGGAGGUUGUGA
Cel-miR-68	SEQ ID NO. 183 UCGAAGACUCAAAAGUGUAGAC	SEQ ID NO.489 GUCUACACUUUUGAGUCUUCGA
Cel-miR-69	SEQ ID NO. 184 UCGAAAAUUAAAAAGUGUAGAA	SEQ ID NO.490 UUCUACACUUUUUAAUUUUCGA
Cel-miR-70	SEQ ID NO. 185 UAAUACGUCGUUGGUGUUUCCA	SEQ ID NO.491 UGGAAACACCAACGACGUAUUA
Cel-miR-71	SEQ ID NO. 186 UGAAAGACAUGGGUAGUGAACG	SEQ ID NO.492 CGUUCACUACCCAUGUCUUUCA
Cel-miR-72	SEQ ID NO. 187 AGGCAAGAUGUUGGCAUAGCUG	SEQ ID NO.493 CAGCUAUGCCAACAUCUUGCCU
Cel-miR-73	SEQ ID NO. 188 UGGCAAGAUGUAGGCAGUUCAG	SEQ ID NO.494 CUGAACUGCCUACAUCUUGCCA
Cel-miR-74	SEQ ID NO. 189 UGGCAAGAAAUGGCAGUCUACA	SEQ ID NO.495 UGUAGACUGCCAUUUCUUGCCA
Cel-miR-75	SEQ ID NO. 190 UUAAAGCUACCAACCGGCUUCA	SEQ ID NO.496 UGAAGCCGGUUGGUAGCUUUAA
Cel-miR-76	SEQ ID NO. 191 UUCGUUGUUGAUGAAGCCUUGA	SEQ ID NO.497 UCAAGGCUUCAUCAACAACGAA
Cel-miR-77	SEQ ID NO. 192 UUCAUCAGGCCAUAGCUGUCCA	SEQ ID NO.498 UGGACAGCUAUGGCCUGAUGAA
Cel-miR-78	SEQ ID NO. 193 UGGAGGCCUGGUUGUUUGUGCU	SEQ ID NO.499 AGCACAAACAACCAGGCCUCCA
Cel-miR-79	SEQ ID NO. 194 AUAAAGCUAGGUUACCAAAGCU	SEQ ID NO.500 AGCUUUGGUAACCUAGCUUUAU
Cel-miR-227	SEQ ID NO. 195 AGCUUUCGACAUGAUUCUGAAC	SEQ ID NO.501 GUUCAGAAUCAUGUCGAAAGCU
Cel-miR-80	SEQ ID NO. 196 UGAGAUCAUUAGUUGAAAGCCG	SEQ ID NO.502 CGGCUUUCAACUAAUGAUCUCA
Cel-miR-81	SEQ ID NO. 197 UGAGAUCAUCGUGAAAGCUAGU	SEQ ID NO.503 ACUAGCUUUCACGAUGAUCUCA

microRNA name	microRNA sequence (5' to 3')	Anti-microRNA molecule sequence (5' to 3')
Cel-miR-82	SEQ ID NO. 198 UGAGAUCAUCGUGAAAGCCAGU	SEQ ID NO.504 ACUGGCUUUCACGAUGAUCUCA
Cel-miR-83	SEQ ID NO. 199 UAGCACCAUAUAAAUUCAGUAA	SEQ ID NO.505 UUACUGAAUUUAUAUGGUGCUA
Cel-miR-84	SEQ ID NO. 200 UGAGGUAGUAUGUAAUAUUGUA	SEQ ID NO.506 UACAAUAUUACAUACUACCUCA
Cel-miR-85	SEQ ID NO. 201 UACAAAGUAUUUGAAAAGUCGU	SEQ ID NO.507 ACGACUUUUCAAAUACUUUGUA
Cel-miR-86	SEQ ID NO. 202 UAAGUGAAUGCUUUGCCACAGU	SEQ ID NO.508 ACUGUGGCAAAGCAUUCACUUA
Cel-miR-87	SEQ ID NO. 203 GUGAGCAAAGUUUCAGGUGUGC	SEQ ID NO.509 GCACACCUGAAACUUUGCUCAC
Cel-miR-90	SEQ ID NO. 204 UGAUAUGUUGUUUGAAUGCCCC	SEQ ID NO.510 GGGGCAUUCAAACAACAUAUCA
Cel-miR-124	SEQ ID NO. 205 UAAGGCACGCGGUGAAUGCCAC	SEQ ID NO.511 GUGGCAUUCACCGCGUGCCUUA
Cel-miR-228	SEQ ID NO. 206 AAUGGCACUGCAUGAAUUCACG	SEQ ID NO.512 CGUGAAUUCAUGCAGUGCCAUU
Cel-miR-229	SEQ ID NO. 207 AAUGACACUGGUUAUCUUUUCC	SEQ ID NO.513 GGAAAAGAUAACCAGUGUCAUU
Cel-miR-230	SEQ ID NO. 208 GUAUUAGUUGUGCGACCAGGAG	SEQ ID NO.514 CUCCUGGUCGCACAACUAAUAC
Cel-miR-231	SEQ ID NO. 209 UAAGCUCGUGAUCAACAGGCAG	SEQ ID NO.515 CUGCCUGUUGAUCACGAGCUUA
Cel-miR-232	SEQ ID NO. 210 UAAAUGCAUCUUAACUGCGGUG	SEQ ID NO.516 CACCGCAGUUAAGAUGCAUUUA
Cel-miR-233	SEQ ID NO. 211 UUGAGCAAUGCGCAUGUGCGGG	SEQ ID NO.517 CCCGCACAUGCGCAUUGCUCAA
Cel-miR-234	SEQ ID NO. 212 UUAUUGCUCGAGAAUACCCUUU	SEQ ID NO.518 AAAGGGUAUUCUCGAGCAAUAA
Cel-miR-235	SEQ ID NO. 213 UAUUGCACUCUCCCCGGCCUGA	SEQ ID NO.519 UCAGGCCGGGGAGAGUGCAAUA
Cel-miR-236	SEQ ID NO. 214 UAAUACUGUCAGGUAAUGACGC	SEQ ID NO.520 GCGUCAUUACCUGACAGUAUUA
Cel-miR-237	SEQ ID NO. 215 UCCCUGAGAAUUCUCGAACAGC	SEQ ID NO.521 GCUGUUCGAGAAUUCUCAGGGA
Cel-miR-238	SEQ ID NO. 216 UUUGUACUCCGAUGCCAUUCAG	SEQ ID NO.522 CUGAAUGGCAUCGGAGUACAAA
Cel-miR-239a	SEQ ID NO. 217 UUUGUACUACACAUAGGUACUG	SEQ ID NO.523 CAGUACCUAUGUGUAGUACAAA
Cel-miR-239b	SEQ ID NO. 218 UUUGUACUACACAAAAGUACUG	SEQ ID NO.524 CAGUACUUUUGUGUAGUACAAA
Cel-miR-240	SEQ ID NO. 219 UACUGGCCCCCAAAUCUUCGCU	SEQ ID NO.525 AGCGAAGAUUUGGGGGCCAGUA
Cel-miR-241	SEQ ID NO. 220 UGAGGUAGGUGCGAGAAAUGAC	SEQ ID NO.526 GUCAUUUCUCGCACCUACCUCA
Cel-miR-242	SEQ ID NO. 221 UUGCGUAGGCCUUUGCUUCGAG	SEQ ID NO.527 CUCGAAGCAAAGGCCUACGCAA
Cel-miR-243	SEQ ID NO. 222 CGGUACGAUCGCGGCGGGAUAU	SEQ ID NO.528 AUAUCCCGCCGCGAUCGUACCG
Cel-miR-244	SEQ ID NO. 223 UCUUUGGUUGUACAAAGUGGUA	SEQ ID NO.529 UACCACUUUGUACAACCAAAGA
Cel-miR-245	SEQ ID NO. 224 AUUGGUCCCCUCCAAGUAGCUC	SEQ ID NO.530 GAGCUACUUGGAGGGGACCAAU
Cel-miR-246	SEQ ID NO. 225 UUACAUGUUUCGGGUAGGAGCU	SEQ ID NO.531 AGCUCCUACCCGAAACAUGUAA
Cel-miR-247	SEQ ID NO. 226 UGACUAGAGCCUAUUCUCUUCU	SEQ ID NO.532 AGAAGAGAAUAGGCUCUAGUCA
Cel-miR-248	SEQ ID NO. 227 UACACGUGCACGGAUAACGCUC	SEQ ID NO.533 GAGCGUUAUCCGUGCACGUGUA
Cel-miR-249	SEQ ID NO. 228 UCACAGGACUUUUGAGCGUUGC	SEQ ID NO.534 GCAACGCUCAAAAGUCCUGUGA
Cel-miR-250	SEQ ID NO. 229 UCACAGUCAACUGUUGGCAUGG	SEQ ID NO.535 CCAUGCCAACAGUUGACUGUGA
Cel-miR-251	SEQ ID NO. 230 UUAAGUAGUGGUGCCGCUCUUA	SEQ ID NO.536 UAAGAGCGGCACCACUACUUAA
Cel-miR-252	SEQ ID NO. 231 UAAGUAGUAGUGCCGCAGGUAA	SEQ ID NO.537 UUACCUGCGGCACUACUACUUA
Cel-miR-253	SEQ ID NO. 232 CACACCUCACUAACACUGACCA	SEQ ID NO.538 UGGUCAGUGUUAGUGAGGUGUG
Cel-miR-254	SEQ ID NO. 233 UGCAAAUCUUUCGCGACUGUAG	SEQ ID NO.539 CUACAGUCGCGAAAGAUUUGCA
Cel-miR-256	SEQ ID NO. 234 UGGAAUGCAUAGAAGACUGUAC	SEQ ID NO.540 GUACAGUCUUCUAUGCAUUCCA
Cel-miR-257	SEQ ID NO. 235 GAGUAUCAGGAGUACCCAGUGA	SEQ ID NO.541 UCACUGGGUACUCCUGAUACUC
Cel-miR-258	SEQ ID NO. 236 GGUUUUGAGAGGAAUCCUUUUA	SEQ ID NO.542 UAAAAGGAUUCCUCUCAAAACC
Cel-miR-259	SEQ ID NO. 237 AGUAAAUCUCAUCCUAAUCUGG	SEQ ID NO.543 CCAGAUUAGGAUGAGAUUUACU
Cel-miR-260	SEQ ID NO. 238 GUGAUGUCGAACUCUUGUAGGA	SEQ ID NO.544 UCCUACAAGAGUUCGACAUCAC
Cel-miR-261	SEQ ID NO. 239 UAGCUUUUUAGUUUUCACGGUG	SEQ ID NO.545 CACCGUGAAAACUAAAAAGCUA
Cel-miR-262	SEQ ID NO. 240 GUUUCUCGAUGUUUUCUGAUAC	SEQ ID NO.546 GUAUCAGAAAACAUCGAGAAAC
Cel-miR-264	SEQ ID NO. 241 GGCGGGUGGUUGUUGUUAUGGG	SEQ ID NO.547 CCCAUAACAACAACCACCCGCC
Cel-miR-265	SEQ ID NO. 242 UGAGGGAGGAAGGGUGGUAUUU	SEQ ID NO.548 AAAUACCACCCUUCCUCCCUCA
Cel-miR-266	SEQ ID NO. 243 AGGCAAGACUUUGGCAAAGCUU	SEQ ID NO.549 AAGCUUUGCCAAAGUCUUGCCU
Cel-miR-267	SEQ ID NO. 244 CCCGUGAAGUGUCUGCUGCAAU	SEQ ID NO.550 AUUGCAGCAGACACUUCACGGG
Cel-miR-268	SEQ ID NO. 245 GGCAAGAAUUAGAAGCAGUUUG	SEQ ID NO.551 CAAACUGCUUCUAAUUCUUGCC
Cel-miR-269	SEQ ID NO. 246 GGCAAGACUCUGGCAAAACUUG	SEQ ID NO.552 CAAGUUUUGCCAGAGUCUUGCC
Cel-miR-270	SEQ ID NO. 247 GGCAUGAUGUAGCAGUGGAGAU	SEQ ID NO.553 AUCUCCACUGCUACAUCAUGCC
Cel-miR-271	SEQ ID NO. 248 UCGCCGGGUGGGAAAGCAUUCG	SEQ ID NO.554 CGAAUGCUUUCCCACCCGGCGA
Cel-miR-272	SEQ ID NO. 249 UGUAGGCAUGGGUGUUUGGAAG	SEQ ID NO.555 CUUCCAAACACCCAUGCCUACA
Cel-miR-273	SEQ ID NO. 250 UGCCCGUACUGUGUCGGCUGCU	SEQ ID NO.556 AGCAGCCGACACAGUACGGGCA

Table 4: Drosophila microRNA and anti-microRNA sequences.

microRNA name	microRNA sequence (5' to 3')	Anti-microRNA molecule sequence (5' to 3')
Dme-miR-263a	SEQ ID NO. 251 GUUAAUGGCACUGGAAGAAUUC	SEQ ID NO.557 GAAUUCUUCCAGUGCCAUUAAC
Dme-miR-184	SEQ ID NO. 252 UGGACGGAGAACUGAUAAGGGC	SEQ ID NO.558 GCCCUUAUCAGUUCUCCGUCCA
Dme-miR-274	SEQ ID NO. 253 UUUUGUGACCGACACUAACGGG	SEQ ID NO.559 CCCGUUAGUGUCGGUCACAAAA
Dme-miR-275	SEQ ID NO. 254 UCAGGUACCUGAAGUAGCGCGC	SEQ ID NO.560 GCGCGCUACUUCAGGUACCUGA
Dme-miR-92a	SEQ ID NO. 255 CAUUGCACUUGUCCCGGCCUAU	SEQ ID NO.561 AUAGGCCGGGACAAGUGCAAUG
Dme-miR-219	SEQ ID NO. 256 UGAUUGUCCAAACGCAAUUCUU	SEQ ID NO.562 AAGAAUUGCGUUUGGACAAUCA
Dme-miR-276a	SEQ ID NO. 257 UAGGAACUUCAUACCGUGCUCU	SEQ ID NO.563 AGAGCACGGUAUGAAGUUCCUA
Dme-miR-277	SEQ ID NO. 258 UAAAUGCACUAUCUGGUACGAC	SEQ ID NO.564 GUCGUACCAGAUAGUGCAUUUA
Dme-miR-278	SEQ ID NO. 259 UCGGUGGGACUUUCGUCCGUUU	SEQ ID NO.565 AAACGGACGAAAGUCCCACCGA
Dme-miR-133	SEQ ID NO. 260 UUGGUCCCCUUCAACCAGCUGU	SEQ ID NO.566 ACAGCUGGUUGAAGGGGACCAA
Dme-miR-279	SEQ ID NO. 261 UGACUAGAUCCACACUCAUUAA	SEQ ID NO.567 UUAAUGAGUGUGGAUCUAGUCA
Dme-miR-33	SEQ ID NO. 262 AGGUGCAUUGUAGUCGCAUUGU	SEQ ID NO.568 ACAAUGCGACUACAAUGCACCU
Dme-miR-280	SEQ ID NO. 263 UGUAUUUACGUUGCAUAUGAAA	SEQ ID NO.569 UUUCAUAUGCAACGUAAAUACA
Dme-miR-281	SEQ ID NO. 264 UGUCAUGGAAUUGCUCUCUUUG	SEQ ID NO.570 CAAAGAGAGCAAUUCCAUGACA
Dme-miR-282	SEQ ID NO. 265 AAUCUAGCCUCUACUAGGCUUU	SEQ ID NO.571 AAAGCCUAGUAGAGGCUAGAUU
Dme-miR-283	SEQ ID NO. 266 UAAAUAUCAGCUGGUAAUUCUG	SEQ ID NO.572 CAGAAUUACCAGCUGAUAUUUA
Dme-miR-284	SEQ ID NO. 267 UGAAGUCAGCAACUUGAUUCCA	SEQ ID NO.573 UGGAAUCAAGUUGCUGACUUCA
Dme-miR-34	SEQ ID NO. 268 UGGCAGUGUGGUUAGCUGGUUG	SEQ ID NO.574 CAACCAGCUAACCACACUGCCA
Dme-miR-124	SEQ ID NO. 269 UAAGGCACGCGGUGAAUGCCAA	SEQ ID NO.575 UUGGCAUUCACCGCGUGCCUUA
Dme-miR-79	SEQ ID NO. 270 UAAAGCUAGAUUACCAAAGCAU	SEQ ID NO.576 AUGCUUUGGUAAUCUAGCUUUA
Dme-miR-276b	SEQ ID NO. 271 UAGGAACUUAAUACCGUGCUCU	SEQ ID NO.577 AGAGCACGGUAUUAAGUUCCUA
Dme-miR-210	SEQ ID NO. 272 UUGUGCGUGUGACAGCGGCUAU	SEQ ID NO.578 AUAGCCGCUGUCACACGCACAA
Dme-miR-285	SEQ ID NO. 273 UAGCACCAUUCGAAAUCAGUGC	SEQ ID NO.579 GCACUGAUUUCGAAUGGUGCUA
Dme-miR-100	SEQ ID NO. 274 AACCCGUAAAUCCGAACUUGUG	SEQ ID NO.580 CACAAGUUCGGAUUUACGGGUU
Dme-miR-92b	SEQ ID NO. 275 AAUUGCACUAGUCCCGGCCUGC	SEQ ID NO.581 GCAGGCCGGGACUAGUGCAAUU
Dme-miR-286	SEQ ID NO. 276 UGACUAGACCGAACACUCGUGC	SEQ ID NO.582 GCACGAGUGUUCGGUCUAGUCA
Dme-miR-287	SEQ ID NO. 277 UGUGUUGAAAAUCGUUUGCACG	SEQ ID NO.583 CGUGCAAACGAUUUUCAACACA
Dme-miR-87	SEQ ID NO. 278 UUGAGCAAAAUUUCAGGUGUGU	SEQ ID NO.584 ACACACCUGAAAUUUUGCUCAA
Dme-miR-263b	SEQ ID NO. 279 CUUGGCACUGGGAGAAUUCACA	SEQ ID NO.585 UGUGAAUUCUCCCAGUGCCAAG
Dme-miR-288	SEQ ID NO. 280 UUUCAUGUCGAUUUCAUUUCAU	SEQ ID NO.586 AUGAAAUGAAAUCGACAUGAAA
Dme-miR-289	SEQ ID NO. 281 UAAAUAUUUAAGUGGAGCCUGC	SEQ ID NO.587 GCAGGCUCCACUUAAAUAUUUA
Dme-bantam	SEQ ID NO. 282 UGAGAUCAUUUUGAAAGCUGAU	SEQ ID NO.588 AUCAGCUUUCAAAAUGAUCUCA
Dme-miR-303	SEQ ID NO. 283 UUUAGGUUUCACAGGAAACUGG	SEQ ID NO.589 CCAGUUUCCUGUGAAACCUAAA
Dme-miR-31b	SEQ ID NO. 284 UGGCAAGAUGUCGGAAUAGCUG	SEQ ID NO.590 CAGCUAUUCCGACAUCUUGCCA
Dme-miR-304	SEQ ID NO. 285 UAAUCUCAAUUUGUAAAUGUGA	SEQ ID NO.591 UCACAUUUACAAAUUGAGAUUA
Dme-miR-305	SEQ ID NO. 286 AUUGUACUUCAUCAGGUGCUCU	SEQ ID NO.592 AGAGCACCUGAUGAAGUACAAU
Dme-miR-9c	SEQ ID NO. 287 UCUUUGGUAUUCUAGCUGUAGA	SEQ ID NO.593 UCUACAGCUAGAAUACCAAAGA
Dme-miR-306	SEQ ID NO. 288 UCAGGUACUUAGUGACUCUCAA	SEQ ID NO.594 UUGAGAGUCACUAAGUACCUGA
Dme-miR-9b	SEQ ID NO. 289 UCUUUGGUGAUUUUAGCUGUAU	SEQ ID NO.595 AUACAGCUAAAAUCACCAAAGA
Dme-miR-125	SEQ ID NO. 290 UCCCUGAGACCCUAACUUGUGA	SEQ ID NO.596 UCACAAGUUAGGGUCUCAGGGA
Dme-miR-307	SEQ ID NO. 291 UCACAACCUCCUUGAGUGAGCG	SEQ ID NO.597 CGCUCACUCAAGGAGGUUGUGA
Dme-miR-308	SEQ ID NO. 292 AAUCACAGGAUUAUACUGUGAG	SEQ ID NO.598 CUCACAGUAUAAUCCUGUGAUU
dme-miR-31a	SEQ ID NO. 293 UGGCAAGAUGUCGGCAUAGCUG	SEQ ID NO.599 CAGCUAUGCCGACAUCUUGCCA
dme-miR-309	SEQ ID NO. 294 GCACUGGGUAAAGUUUGUCCUA	SEQ ID NO.600 UAGGACAAACUUUACCCAGUGC
dme-miR-310	SEQ ID NO. 295 UAUUGCACACUUCCCGGCCUUU	SEQ ID NO.601 AAAGGCCGGGAAGUGUGCAAUA
dme-miR-311	SEQ ID NO. 296 UAUUGCACAUUCACCGGCCUGA	SEQ ID NO.602 UCAGGCCGGUGAAUGUGCAAUA
dme-miR-312	SEQ ID NO. 297 UAUUGCACUUGAGACGGCCUGA	SEQ ID NO.603 UCAGGCCGUCUCAAGUGCAAUA
dme-miR-313	SEQ ID NO. 298 UAUUGCACUUUUCACAGCCCGA	SEQ ID NO.604 UCGGGCUGUGAAAAGUGCAAUA
dme-miR-314	SEQ ID NO. 299 UAUUCGAGCCAAUAAGUUCGG	SEQ ID NO.605 CCGAACUUAUUGGCUCGAAUA
dme-miR-315	SEQ ID NO. 300 UUUUGAUUGUUGCUCAGAAAGC	SEQ ID NO.606 GCUUUCUGAGCAACAAUCAAAA
dme-miR-316	SEQ ID NO. 301 UGUCUUUUUCCGCUUACUGGCG	SEQ ID NO.607 CGCCAGUAAGCGGAAAAAGACA
dme-miR-317	SEQ ID NO. 302 UGAACACAGCUGGUGGUAUCCA	SEQ ID NO.608 UGGAUACCACCAGCUGUGUUCA
dme-miR-318	SEQ ID NO. 303 UCACUGGGCUUUGUUUAUCUCA	SEQ ID NO.609 UGAGAUAAACAAAGCCCAGUGA
dme-miR-2c	SEQ ID NO. 304 UAUCACAGCCAGCUUUGAUGGG	SEQ ID NO.610 CCCAUCAAAGCUGGCUGUGAUA

microRNA name	microRNA sequence (5' to 3')	Anti-microRNA molecule sequence (5' to 3')
Dme-miR-iab45p	SEQ ID NO. 305 ACGUAUACUGAAUGUAUCCUGA	SEQ ID NO.611 UCAGGAUACAUUCAGUAUACGU
Dme-miR-iab43p	SEQ ID NO. 306 CGGUAUACCUUCAGUAUACGUA	SEQ ID NO.612 UACGUAUACUGAAGGUAUACCG

On page 27, please delete the first full paragraph and insert in its place the following new paragraph:

The sequences of the 2'-O-methyl oligoribonucleotides were 5'-GUCAACAUCAGUCUGAUAAGCUAL (L, 3' aminolinker) for 2'-OMe miR-21 (SEQ ID NO. 613), and 5'-AAGGCAAGCUGACCCUGAAGUL for EGFP 2'-OMe antisense (SEQ ID NO. 614), 5'-UGAAGUCCCAGUCGAACGGAAL for EGFP 2'-OMe reverse (SEQ ID NO. 615); the sequence of chimeric 2'-OMe/DNA oligonucleotides was 5'-GTCAACATCAGTCTGATAAGCTAGCGL for 2'-deoxy miR-21 (underlined, 2'-OMe residues) (SEQ ID NO. 616), and 5'-AAGGCAAGCTGACCCTGAAGTGCGL for EGFP 2'-deoxy antisense (SEQ ID NO. 617).

On page 27, please delete the second full paragraph and insert in its place the following new paragraph:

The miR-21 cleavage substrate was prepared by PCR-based extension of the partially complementary synthetic DNA oligonucleotides 5'-GAACAATTGCTTTTACAGATGCACATATCGAGGTGAACATCACGTACGTCAACATCAGTCTGATA AGCTATCGGTTGGCAGAAGCTAT (SEQ ID NO. 618) and 5'-GGCATAAAGAATTGAAGAGAGTTTTCACTGCATACGACGATTCTGTGATTTGTATTCAGCCCATAT CGTTTCATAGCTTCTGCCAACCGA (SEQ ID NO. 619). The extended dsDNA was then used as template for a new PCR with primers 5'-TAATACGACTCACTATAGAACAATTGCTTTTACAG (SEQ ID NO. 620) and 5'-ATTTAGGTGACACTATAGGCATAAAGAATTGAAGA (SEQ ID NO. 621) to introduce the T7 and SP6 promoter sequences for in vitro transcription. The PCR product was ligated into pCR2.1-TOPO (Invitrogen). Plasmids isolated from sequence-verified clones were used as templates for PCR to produce sufficient template for run-off in vitro transcription reactions using phage RNA polymerases (Elbashir et al., EMBO *20,* 6877-6888 (2001)). ^{32}P-Cap-labelling was performed as reported (Martinez et al., Cell *110,* 563-574 (2002)).

On page 27, please delete the paragraph bridging page 27 and 28 and insert in its place the following new paragraph:

Plasmids pEGFP-S-21 and pEGFP-A-21 were generated by T4 DNA ligation of preannealed oligodeoxynucleotides 5'-GGCCTCAACATCAGTCTGATAAGCTAGGTACCT (SEQ ID NO. 622) and 5'-GGCCAGGTACCTAGCTTATCAGACTGATGTTGA (SEQ ID NO. 623) into NotI digested pEGFP-N-1 (Clontech). The plasmid pHcRed-C1 was from Clontech.